

AMENDMENTS TO THE SPECIFICATION

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (currently amended) A peristaltic hose pump ~~[[of the type having]]~~ for pumping fluid through a pump hose, the peristaltic pump comprising:

a rotatable shaft ~~[(20)]~~ extending parallel to the pump hose and comprising several eccentric discs ~~[(21)]~~ each ~~[[of which carries]]~~ eccentric disc carrying a bearing; ~~[(22) and thus moves a pump finger (11) transversely to a pump hose (10), and with]]~~

a sealing diaphragm ~~[(27)]~~ disposed between the rotatable shaft ~~[(20)]~~ and the pump hose ~~[(10)]~~, and ~~[[wherein:]]~~

a plurality of linearly guided pump fingers each engaging a portion of the pump hose at one end and connected at another end to one of a plurality of connecting rods, [[each of the bearings (22) is connected with a connecting rod (25) which engages on a linearly guided pump finger (11),]] wherein:

the connecting rods are rotatably engaged with the bearings on the eccentric discs to be driven transversely to the pumping hose by the eccentricity of the discs upon rotation of the shaft;

the pump fingers ~~[(11)]~~ are arranged at the side of the sealing diaphragm ~~[(27)]~~ facing the pump hose ~~[(10)]~~,

~~[[a sealing diaphragm (27) disposed between the shaft (20) and the pump hose (10), and wherein:]]~~ and

the connecting rods ~~[(25)]~~ pass through the sealing diaphragm ~~[(27)]~~ so that the connecting rods may move transverse to the rotation of the rotatable shaft and so that the sealing diaphragm seals the rotating shaft from the pumping hose.

2. (currently amended) The hose pump of claim 1, wherein the sealing diaphragm ~~[(27)]~~ comprises lateral folds ~~[(34)]~~ permitting an adaptation to the transverse movements of the connecting rod ~~[(25)]~~.

3. (currently amended) The hose pump of claim 1, further comprising:
a housing ~~[(16)]~~; and
a guide plate ~~[(13)]~~ removably mounted to the housing ~~[(16)]~~, the guide plate ~~[(13)]~~ having a longitudinally extending receiving channel ~~[(12)]~~ for the pump hose ~~[(10)]~~ and guide channels ~~[(14)]~~ for the plurality of linearly guided pump fingers ~~[(11)]~~.

4. (currently amended) The hose pump of claim 3, further comprising:
a thrust bearing ~~[(17)]~~, for supporting the pump hose ~~[(10)]~~, attached to the housing ~~[(16)]~~, the thrust bearing ~~[(17)]~~ comprising a projection ~~[(18)]~~ projecting into the receiving channel ~~[(12)]~~.

5. (currently amended) The hose pump of claim 1 wherein the eccentric discs ~~[(24)]~~ of the shaft ~~[(20)]~~ are integrally formed to the rotatable shaft ~~[(20)]~~.

6. (currently amended) The hose pump of claim 5, wherein rotatable bearings comprise rotatable ball bearings and the eccentric discs [(21)] form ~~the inner rings~~ inner races of the ball bearings [(22)].

7. (currently amended) The hose pump of claim 1 wherein the eccentric discs [(21)] form the inner rings of ball bearings [(22)].

8. (currently amended) The hose pump of claim 1 wherein the connecting rod [(25)] comprises an outer ring [(23)] surrounding the bearing [(22)].

9. (currently amended) The hose pump of claim 5, wherein the connecting rod [(25)] comprises an outer ring [(23)] surrounding the bearing [(22)].

10. (currently amended) The hose pump of claim 6, wherein the connecting rod [(25)] comprises an outer ring [(23)] surrounding the bearing [(22)].

11. (currently amended) The hose pump of claim 7, wherein the connecting rod [(25)] comprises an outer ring [(23)] surrounding the bearing [(22)].

12. (currently amended) A peristaltic hose pump for moving fluid through a pump hose [(40)], the peristaltic hose pump comprising:

a rotatable shaft extending parallel to the pump hose [(20)]

several eccentric discs [(21)] connected to the rotatable shaft [(20)] for rotation
therewith,

a plurality of bearings bearing-(22), wherein each one of the plurality of bearings is
 carried by each one of the several eccentric discs disc-(21),
 several linearly guided pump fingers [(11)] corresponding to each one of the several
bearings bearing-(22),
 a plurality of connecting rods rod-(25), wherein each one of the plurality of connecting
rods is connected between each one of the several linearly guided pump fingers
 [(11)] and each one of the several bearings bearing-(22), so that the pump
fingers are finger-(11) is moved transversely to [(a)] the pump hose [(10)] upon
 rotation of the shaft [(20)],
 a sealing diaphragm [(27)] disposed between the rotatable shaft [(20)] and the pump
 hose [(10)], wherein the connecting rods [(25)] sealingly pass through the
 sealing diaphragm [(27)] and the pump fingers [(11)] are arranged at one side
 of the sealing diaphragm [(27)] facing the pump hose [(10)] and the bearings
 [(22)] are at the other side of the sealing diaphragm [(27)] facing the rotatable
 shaft [(20)].

13. (currently amended) The hose pump of claim 12, wherein the sealing diaphragm [(27)]
 comprises lateral folds [(34)] permitting an adaptation to the transverse movements of the
 connecting rods rod-(25) .

14. (currently amended) The hose pump of claim 13, further comprising:
 a housing [(16)], and
 a guide plate [(13)] removably mounted to the housing [(16)], the guide plate [(13)]
 having a longitudinally extending receiving channel [(12)] for the pump hose

[[{10}]] and guide channels [[{14}]] for linearly guiding the several linearly guided pump fingers [[{11}]].

15. (currently amended) The hose pump of claim 14, further comprising;
a thrust bearing [[{17}]] attached to the housing [[{16}]] for supporting the pump hose [[{10}]],
the thrust bearing [[{17}]] comprising a projection [[{18}]] projecting into the receiving channel
[[{12}]].

16. (currently amended) The hose pump of claim 12, further comprising:
a housing [[{16}]], and
a guide plate [[{13}]] removably mounted to the housing [[{16}]], the guide plate [[{13}]]
having a longitudinally extending receiving channel [[{12}]] for the pump hose
[[{10}]] and guide channels [[{14}]] for linearly guiding the several linearly
guided pump fingers [[{11}]].

17. (currently amended) The hose pump of claim 16, further comprising;
a thrust bearing [[{17}]] for supporting the pump hose [[{10}]], the thrust bearing [[{17}]]
comprising a projection [[{18}]] projecting into the receiving channel [[{12}]].

18. (currently amended) The hose pump of claim 12, wherein the eccentric discs [[{21}]] are
integrally formed on the rotatable shaft [[{20}]].

19. (currently amended) The hose pump of claim 12, wherein bearings [[{22}]] comprise ball
bearings [[{22}]] and the eccentric discs [[{21}]] form the inner rings of the ball bearings [[{22}]].

20. (currently amended) The hose pump of claim 12, wherein the connecting rods each ~~red~~
~~(25) comprises~~ comprise an outer ring ~~[(23)]~~ surrounding one of the bearings ~~the bearing (22)~~.